

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/562,144
Source: IFWP
Date Processed by STIC: 12/20/2006

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/562, 144

CRF Edit Date: 12/20/2006
Edited by: DA

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

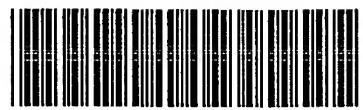
— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

— Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

Other: Insert- Amino Acid Numbering (85)



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,144

DATE: 12/20/2006
TIME: 12:25:04

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\12202006\J562144.raw

5 <110> APPLICANT: CASTANIA Sociedade Agroflorestal SA
9 <120> TITLE OF INVENTION: Castanea sativa Mill. genes codifying for Allene Oxide
Cyclase, Cystatin,
10 B-1,3-Glucanase and Thaumatin-Like Protein and their use
14 <130> FILE REFERENCE: 1
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/562,144
C--> 20 <141> CURRENT FILING DATE: 2005-12-23
22 <150> PRIOR APPLICATION NUMBER: PT 102979-S
23 <151> PRIOR FILING DATE: 2003-06-26
27 <160> NUMBER OF SEQ ID NOS: 3
31 <170> SOFTWARE: PatentIn version 3.1
37 <210> SEQ ID NO: 1
39 <211> LENGTH: 735
41 <212> TYPE: DNA
43 <213> ORGANISM: Castanea sativa
48 <400> SEQUENCE: 1
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50 Met Ala Thr Val Ser Ser Ala Ser Ala Ala Leu Arg Thr Ile Ser Ser
51 1 5 10 15
53 tcc tca tcc aag cta tct tct gcc ttc caa act aaa aag atc caa tct 96
54 Ser Ser Ser Lys Leu Ser Ser Ala Phe Gln Thr Lys Lys Ile Gln Ser
55 20 25 30
57 ttt aaa cta cct aac cct ctc att tct cag aat cat aaa ctt act acc 144
58 Phe Lys Leu Pro Asn Pro Leu Ile Ser Gln Asn His Lys Leu Thr Thr
59 35 40 45
61 acc tct act act gct tcc aga tca ttt tcc tgc aag agc cag agc acc 192
62 Thr Ser Thr Thr Ala Ser Arg Ser Phe Ser Cys Lys Ser Gln Ser Thr
63 50 55 60
65 tca aca gat tca act aac act gaa gtt caa gaa ctt agt gtc tat gag 240
66 Ser Thr Asp Ser Thr Asn Thr Glu Val Gln Glu Leu Ser Val Tyr Glu
67 65 70 75 80
69 atc aat gaa cgt gat cgt gga agc cct gct tat ctt cga ttg agc caa 288
70 Ile Asn Glu Arg Asp Arg Gly Ser Pro Ala Tyr Leu Arg Leu Ser Gln
71 85 90 95
73 aag act gtt aat tca ctc gga gat ctt gtc ccc ttt agc aac aag cta 336
74 Lys Thr Val Asn Ser Leu Gly Asp Leu Val Pro Phe Ser Asn Lys Leu
75 100 105 110
77 tat act gca gat cta aag aag aga att gga ata aca gca gga ctc tgc 384
78 Tyr Thr Ala Asp Leu Lys Lys Arg Ile Gly Ile Thr Ala Gly Leu Cys
79 115 120 125
81 att ctg atc aag cac gaa gaa gag aag aaa gga gat cgc tat gaa gct 432
82 Ile Leu Ile Lys His Glu Glu Lys Lys Gly Asp Arg Tyr Glu Ala
83 130 135 140
85 gtt tac agc ttc tac ttc ggc gat tac ggt cat atc gcc gtt cag gga 480

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TIME: 12:25:04

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\12202006\J562144.raw

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87	145					150				155				160				
89	g	c	g	t	a	c	t	a	g	g	a	c	t	a	g	g	tcc	528
90	Ala	Tyr	Leu	Thr	Tyr	Glu	Glu	Thr	Tyr	Leu	Ala	Val	Thr	Gly	Gly	Ser		
91						165				170				175				
93	g	g	c	a	t	t	g	c	g	g	t	c	g	a	a	t	att	576
94	Gly	Ile	Phe	Ala	Gly	Val	Ser	Gly	Gly	Val	Lys	Leu	Gln	Gln	Leu	Ile		
95						180				185				190				
97	t	t	c	c	t	a	a	g	t	c	a	t	g	g	g	g	atc ccc ggt	624
98	Phe	Pro	Phe	Lys	Leu	Phe	Tyr	Thr	Phe	Tyr	Leu	Lys	Gly	Ile	Pro	Gly		
99						195				200				205				
101	c	t	g	c	t	a	g	t	c	a	g	g	g	g	g	g	ctg	672
102	Leu	Pro	Ser	Glu	Leu	Leu	Cys	Thr	Ala	Val	Pro	Pro	Ser	Pro	Thr	Val		
103						210				215				220				
105	g	a	g	c	a	c	g	a	g	c	t	t	g	g	g	g	ctg	720
106	Glu	Pro	Thr	Pro	Glu	Ala	Lys	Ala	Cys	Glu	Glu	Gly	Ala	Ala	Leu	Lys		
107						225				230				235			240	
109	a	a	t	a	c	t	a	c	t	a	g	g	g	g	g	g		735
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118	<212>	TYPE:	PRT															
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127	1				5					10				15				
130	Ser	Ser	Ser	Lys	Leu	Ser	Ser	Ala	Phe	Gln	Thr	Lys	Lys	Ile	Gln	Ser		
131					20					25				30				
134	Phe	Lys	Leu	Pro	Asn	Pro	Leu	Ile	Ser	Gln	Asn	His	Lys	Leu	Thr	Thr		
135					35					40				45				
138	Thr	Ser	Thr	Thr	Ala	Ser	Arg	Ser	Phe	Ser	Cys	Lys	Ser	Gln	Ser	Thr		
139					50					55				60				
142	Ser	Thr	Asp	Ser	Thr	Asn	Thr	Glu	Val	Gln	Glu	Leu	Ser	Val	Tyr	Glu		
143	65					70				75				80				
146	Ile	Asn	Glu	Arg	Asp	Arg	Gly	Ser	Pro	Ala	Tyr	Leu	Arg	Leu	Ser	Gln		
147					85					90				95				
150	Lys	Thr	Val	Asn	Ser	Leu	Gly	Asp	Leu	Val	Pro	Phe	Ser	Asn	Lys	Leu		
151					100					105				110				
154	Tyr	Thr	Ala	Asp	Leu	Lys	Lys	Arg	Ile	Gly	Ile	Thr	Ala	Gly	Leu	Cys		
155					115					120				125				
158	Ile	Leu	Ile	Lys	His	Glu	Glu	Glu	Lys	Lys	Gly	Asp	Arg	Tyr	Glu	Ala		
159					130					135				140				
162	Val	Tyr	Ser	Phe	Tyr	Phe	Gly	Asp	Tyr	Gly	His	Ile	Ala	Val	Gln	Gly		
163	145					150					155				160			
166	Ala	Tyr	Leu	Thr	Tyr	Glu	Glu	Thr	Tyr	Leu	Ala	Val	Thr	Gly	Gly	Ser		
167					165					170				175				
170	Gly	Ile	Phe	Ala	Gly	Val	Ser	Gly	Gln	Val	Lys	Leu	Gln	Gln	Leu	Ile		
171					180					185				190				
174	Phe	Pro	Phe	Lys	Leu	Phe	Tyr	Thr	Phe	Tyr	Leu	Lys	Gly	Ile	Pro	Gly		

RAW SEQUENCE LISTING DATE: 12/20/2006
 PATENT APPLICATION: US/10/562,144 TIME: 12:25:04

Input Set : A:\pto.da.txt
 Output Set: N:\CRF4\12202006\J562144.raw

175	195	200	205	
178	Leu Pro Ser Glu Leu Leu Cys Thr Ala Val Pro Pro Ser Pro Thr Val			
179	210	215	220	
182	Glu Pro Thr Pro Glu Ala Lys Ala Cys Glu Glu Gly Ala Ala Leu Lys			
183	225	230	235	240
186	Asn Tyr Thr Asn			
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192	<211> LENGTH: 318			
194	<212> TYPE: DNA			
196	<213> ORGANISM: Castanea sativa			
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203	Met Arg Lys Leu Ala Ala Leu Val Gly Gly Val Ser Asp Val Lys Gly			
204	1 5 10 15			
206	cat gag aac agc ttg cag atc gac gac ctc gct cgt ttt gct gtc gac			96
207	His Glu Asn Ser Leu Gln Ile Asp Asp. Leu Ala Arg Phe Ala Val Asp			
208	20 25 30			
210	gac cac aac aag aaa gcg aat aca ctg ctg cag ttt aag aag gtg gtg			144
211	Asp His Asn Lys Lys Ala Asn Thr Leu Leu Gln Phe Lys Lys Val Val			
212	35 40 45			
214	aat gcg aaa cag cag gtg gtt tct gga aca ata tac att cta acg ttg			192
215	Asn Ala Lys Gln Gln Val Val Ser Gly Thr Ile Tyr Ile Leu Thr Leu			
216	50 55 60			
218	gag gtg gag gat ggc ggg aag aag aaa gtt tat gaa gcc aag att tgg			240
219	Glu Val Glu Asp Gly Gly Lys Lys Val Tyr Glu Ala Lys Ile Trp			
220	65 70 75 80			
222	gag aag cca tgg ttg aac ttc aag gag gtg cag gaa ttt aag ctc att			288
223	Glu Lys Pro Trp Leu Asn Phe Lys Glu Val Gln Glu Phe Lys Leu Ile			
224	85 90 95			
226	ggt gat gcc cct aca cac cat agt gct taa			318
227	Gly Asp Ala Pro Thr His His Ser Ala			
228	100 105			
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237	<213> ORGANISM: Castanea sativa			
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243	Met Arg Lys Leu Ala Ala Leu Val Gly Gly Val Ser Asp Val Lys Gly			
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247	His Glu Asn Ser Leu Gln Ile Asp Asp Leu Ala Arg Phe Ala Val Asp			
248	20 25 30			
251	Asp His Asn Lys Lys Ala Asn Thr Leu Leu Gln Phe Lys Lys Val Val			
252	35 40 45			
255	Asn Ala Lys Gln Gln Val Val Ser Gly Thr Ile Tyr Ile Leu Thr Leu			
256	50 55 60			
259	Glu Val Glu Asp Gly Gly Lys Lys Val Tyr Glu Ala Lys Ile Trp			
260	65 70 75 80			
263	Glu Lys Pro Trp Leu Asn Phe Lys Glu Val Gln Glu Phe Lys Leu Ile			
264	85 90 95			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,144

DATE: 12/20/2006
TIME: 12:25:04

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\12202006\J562144.raw

267 Gly Asp Ala Pro Thr His His Ser Ala
268 100 105
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273 <211> LENGTH: 927
275 <212> TYPE: DNA
277 <213> ORGANISM: Castanea sativa
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286 1 5 10 15
288 tct aac att gaa gtc atg cta ggt gtc cca aac tca gac ctt caa agc 96
289 Ser Asn Ile Glu Val Met Leu Gly Val Pro Asn Ser Asp Leu Gln Ser
290 20 25 30
292 ctt gcc aac cct tcc aat gca caa gca tgg gta caa aga aac gta ctt 144
293 Leu Ala Asn Pro Ser Asn Ala Gln Ala Trp Val Gln Arg Asn Val Leu
294 35 40 45
296 aac ttc tgg cct agt gtc agg ttt cga tac att gca gtt gga aat gaa 192
297 Asn Phe Trp Pro Ser Val Arg Phe Arg Tyr Ile Ala Val Gly Asn Glu
298 50 55 60
300 gtc agt cct gtt aat gga ggc aca gct ggg tta gca caa att gtt ctc 240
301 Val Ser Pro Val Asn Gly Gly Thr Ala Gly Leu Ala Gln Ile Val Leu
302 65 70 75 80
304 cct gcc tta acc aac gta ttc aat gca att aga tca gct ggc ctt aag 288
305 Pro Ala Leu Thr Asn Val Phe Asn Ala Ile Arg Ser Ala Gly Leu Lys
306 85 90 95
308 gac caa atc cag gtt tca att gca att gac atg acc tta ata gga aac 336
309 Asp Gln Ile Gln Val Ser Ile Ala Ile Asp Met Thr Leu Ile Gly Asn
310 100 105 110
312 tcc tat cct ccg tca gca ggg gct ttc aga ggt gat gtt aga tca tat 384
313 Ser Tyr Pro Pro Ser Ala Gly Ala Phe Arg Gly Asp Val Arg Ser Tyr
314 115 120 125
316 tta gac cca atc att ggt cac cta gta tat gct aag gca ccc tta cta 432
317 Leu Asp Pro Ile Ile Gly His Leu Val Tyr Ala Lys Ala Pro Leu Leu
318 130 135 140
320 gcc aat gtg tac act tat ttt agc tat gct gga aat cca cgc gac att 480
321 Ala Asn Val Tyr Thr Tyr Phe Ser Tyr Ala Gly Asn Pro Arg Asp Ile
322 145 150 155 160
324 tct ctt ccc tat gct ttg ttt act tcc cca tca gtt gtg gca tgg gat 528
325 Ser Leu Pro Tyr Ala Leu Phe Thr Ser Pro Ser Val Val Ala Trp Asp
326 165 170 175
328 ggt cct aag gga tac caa aac ctt ttt gat gca atg atg gat gca ttg 576
329 Gly Pro Lys Gly Tyr Gln Asn Leu Phe Asp Ala Met Met Asp Ala Leu
330 180 185 190
332 tac tca gct ctc gag agg tcg tgg ggc ggt tca ttg gag gtt gtt gtt 624
333 Tyr Ser Ala Leu Glu Arg Ser Trp Gly Gly Ser Leu Glu Val Val Val
334 195 200 205
336 tca gag agt gga tgg cca tca gca gca ggt gga ttc gct aca tca ttt 672
337 Ser Glu Ser Gly Trp Pro Ser Ala Ala Gly Gly Phe Ala Thr Ser Phe
338 210 215 220

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/562,144

DATE: 12/20/2006

TIME: 12:25:04

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\12202006\J562144.raw

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342	225					230				235						240		
344	ggt	aca	cca	aag	agg	cct	ggg	gga	gct	ata	gag	acc	tat	ctt	ttt	gcc	768	
345	Gly	Thr	Pro	Lys	Arg	Pro	Gly	Gly	Ala	Ile	Glu	Thr	Tyr	Leu	Phe	Ala		
346						245				250						255		
348	atg	ttt	aat	gag	aat	cag	aaa	caa	cca	gag	cta	gag	aaa	aac	ttt	ggc		
349	Met	Phe	Asn	Glu	Asn	Gln	Lys	Gln	Pro	Glu	Leu	Glu	Lys	Asn	Phe	Gly		
350						260				265						270		
352	tta	ttc	ttc	cca	aat	aaa	cag	ccc	aaa	ttt	aac	ctc	aat	ttt	ggt	gga	864	
353	Leu	Phe	Phe	Pro	Asn	Lys	Gln	Pro	Lys	Phe	Asn	Leu	Asn	Phe	Gly	Gly		
354						275				280						285		
356	gaa	aga	atc	tgg	gat	gtc	act	gct	gaa	tat	aat	gca	aca	gtt	tcc	ctc	912	
357	Glu	Arg	Ile	Trp	Asp	Val	Thr	Ala	Glu	Tyr	Asn	Ala	Thr	Val	Ser	Leu		
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367	<211>	LENGTH:	308															
369	<212>	TYPE:	PRT															
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381	Ser	Asn	Ile	Glu	Val	Met	Leu	Gly	Val	Pro	Asn	Ser	Asp	Leu	Gln	Ser		
382						20				25					30			
385	Leu	Ala	Asn	Pro	Ser	Asn	Ala	Gln	Ala	Trp	Val	Gln	Arg	Asn	Val	Leu		
386						35				40					45			
389	Asn	Phe	Trp	Pro	Ser	Val	Arg	Phe	Arg	Tyr	Ile	Ala	Val	Gly	Asn	Glu		
390						50				55					60			
393	Val	Ser	Pro	Val	Asn	Gly	Gly	Thr	Ala	Gly	Leu	Ala	Gln	Ile	Val	Leu		
394						65				70					75		80	
397	Pro	Ala	Leu	Thr	Asn	Val	Phe	Asn	Ala	Ile	Arg	Ser	Ala	Gly	Leu	Lys		
398						85				90					95			
401	Asp	Gln	Ile	Gln	Val	Ser	Ile	Ala	Ile	Asp	Met	Thr	Leu	Ile	Gly	Asn		
402						100				105					110			
405	Ser	Tyr	Pro	Pro	Ser	Ala	Gly	Ala	Phe	Arg	Gly	Asp	Val	Arg	Ser	Tyr		
406						115				120					125			
409	Leu	Asp	Pro	Ile	Ile	Gly	His	Leu	Val	Tyr	Ala	Lys	Ala	Pro	Leu	Leu		
410						130				135					140			
413	Ala	Asn	Val	Tyr	Thr	Tyr	Phe	Ser	Tyr	Ala	Gly	Asn	Pro	Arg	Asp	Ile		
414						145				150					155		160	
417	Ser	Leu	Pro	Tyr	Ala	Leu	Phe	Thr	Ser	Pro	Ser	Val	Val	Ala	Trp	Asp		
418						165				170					175			
421	Gly	Pro	Lys	Gly	Tyr	Gln	Asn	Leu	Phe	Asp	Ala	Met	Met	Asp	Ala	Leu		
422						180				185					190			
425	Tyr	Ser	Ala	Leu	Glu	Arg	Ser	Trp	Gly	Gly	Ser	Leu	Glu	Val	Val	Val		
426						195				200					205			

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/20/2006
PATENT APPLICATION: US/10/562,144 TIME: 12:25:05

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\12202006\J562144.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/562,144

DATE: 12/20/2006

TIME: 12:25:05

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\12202006\J562144.raw

L:18 M:270 C: Current Application Number differs, Replaced Application Number

L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,144

DATE: 12/14/2006
TIME: 08:44:00

Input Set : A:\PTO.SS.txt
Output Set: N:\CRF4\12142006\J562144.raw

5 <110> APPLICANT: CASTANIA Sociedade Agroflorestal SA
9 <120> TITLE OF INVENTION: Castanea sativa Mill. genes codifying for Allene Oxide
Cyclase, Cystatin,
10 B-1,3-Glucanase and Thaumatin-Like Protein and their use
14 <130> FILE REFERENCE: 1
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/562,144
C--> 20 <141> CURRENT FILING DATE: 2005-12-23
22 <150> PRIOR APPLICATION NUMBER: PT 102979-S
23 <151> PRIOR FILING DATE: 2003-06-26
27 <160> NUMBER OF SEQ ID NOS: 8
31 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply
Corrected Diskette Needed

(P9-1)

ERRORED SEQUENCES

534 <210> SEQ ID NO: 8
536 <211> LENGTH: 226
538 <212> TYPE: PRT
540 <213> ORGANISM: Castanea sativa
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551 20 25 30
554 Thr Ile Trp Pro Gly Thr Leu Thr Ser Asp Gln Lys Pro Gln Leu Ser
555 35 40 45
558 Lys Thr Gly Phe Glu Leu Ala Ser Lys Ala Ser Leu Thr Leu Glu Cys
559 50 55 60
562 Ser Ser Ser Met Glu Arg Pro Val Leu Gly Pro Asn Pro Met His His
563 65 70 75 80
566 Gln Ile Arg Lys Val His Leu Arg Asp Cys His Arg Ser Gly Cys Met Gln
E--> 567 85 90 95
570 Trp Arg Cys Asn Pro Thr Ser Phe Phe Ser Arg Asn Gln His Ser Ser Gln
571 100 105 110
574 Ser Trp Asp Gly Leu Leu Pro Cys Arg Trp Leu Gln Leu Ala Cys Phe Cys
575 115 120 125 130
578 Ser His Gln Arg Arg His Trp Leu Gln Gly His Lys Leu Ser Ser Cys Glu
579 135 140 145
582 Arg Ser Leu Pro Ser Gly Ile Thr Ser Glu Arg Val Trp Glu Arg Ala Cys
583 150 155 160 165
586 Leu Gln Glu Arg Leu Tyr Cys Phe Gln Ser Thr Thr Val Leu Leu His Trp
587 170 175 180
590 Cys Ile His Pro Glu Asn Met Ser Thr His Lys Ile Phe Ser His Leu Ala
591 185 190 195

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/562,144

DATE: 12/14/2006

TIME: 08:44:00

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\12142006\J562144.raw

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595 200 205 210 215598 Arg Leu Cys Tyr Arg Ile Leu Ser Ile Asn
599 220 225

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/14/2006
PATENT APPLICATION: US/10/562,144 TIME: 08:44:01

Input Set : A:\PTO.SS.txt
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The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/562,144

DATE: 12/14/2006

TIME: 08:44:01

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\12142006\J562144.raw

L:18 M:270 C: Current Application Number differs, Replaced Application Number

L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:567 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8